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Earthquake Shaking — Green Alert

GSN — USAID — ANSS

PAGER
Version 7

M 5.4, 63 km SSW of Acajutla, El Salvador

Origin Time: 2021-07-08 20:31:35 UTC (Thu 14:31:35 local)
Location: 13.0749° N 90.0906° W Depth: 26.8 km

Created: 1 day, 0 hours after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.
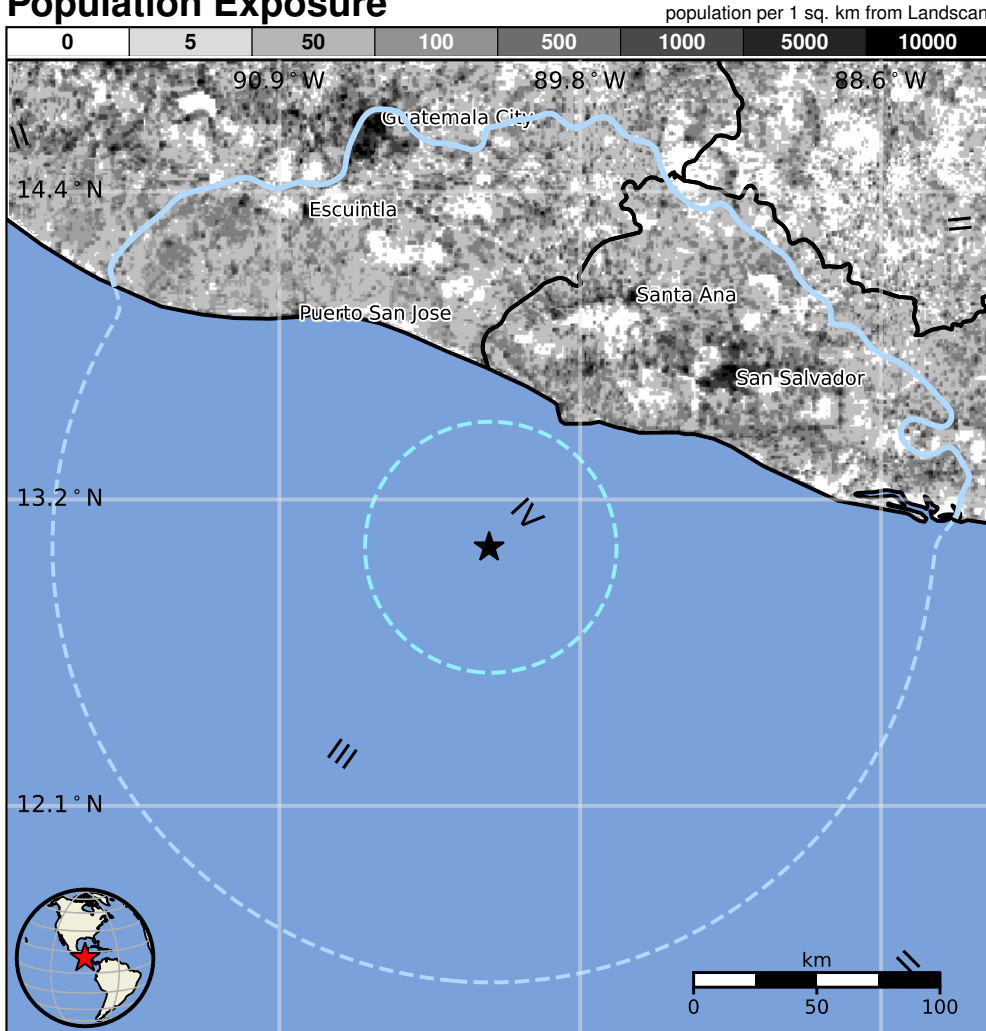
65% 30% 4%

1   10   100   1,000   10,000   100,000
Fatalities

Estimated Economic Losses

65% 30% 4%

1   10   100   1,000   10,000   100,000
USD (Millions)

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	16,133k	7k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

0   5   50   100   500   1000   5000   10000

Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are mud wall and adobe block with concrete bond beam construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2001-02-17	132	4.1	V(2,250k)	1
2001-05-08	145	5.7	VII(562k)	1
1976-02-04	267	7.5	IX(80k)	23k

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
III	Acajutla	23k
III	Sonsonate	59k
III	San Antonio del Monte	9k
III	Guaymango	2k
III	Sonzacate	15k
III	Nahuizalco	7k
III	Santa Tecla	125k
III	**Santa Ana**	**177k**
III	**San Salvador**	**526k**
III	**Guatemala City**	**995k**
II	Quetzaltenango	132k

bold cities appear on map.   (k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.
https://earthquake.usgs.gov/earthquakes/eventpage/us6000etah#pager

Event ID: us6000etah